1. A multipack contains b packs of barbecue flavour crisps, c packs of cheese and onion flavour crisps and v packs of salt and vinegar crisps.

The total number of packs, P, can be worked out using the formula P = b + c + v

Work out the value of P when b = 7, c = 7 and v = 4

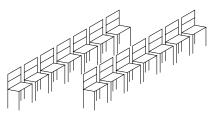
2. The formula to work out the total number of chairs, c, in r rows of 7 chairs is

$$c = 7r$$
 \uparrow

Work out the value of c when r = 2

F.Y.I. Using the 7's row of the times table grid: is much faster than drawing and counting.

:	×	2	3	4	5	6	7	8	9
	7	14	21	28	35	42	49	56	63



3. Here are some shapes made from panel pins.

p

p

p

$$p \sum_{p} p$$

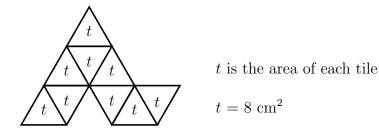
p is the length of each panel pin

$$p = 20 \text{ mm}$$

Complete this table

	perimeter	perimeter	
shape	(in terms of p)	(mm)	
triangle	3p	60	
square	4p		

4. Here is a octagon made from tiles.



Write down the area of the octagon

(i) in terms of t

(ii) in cm^2

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 $\dots \dots \dots$

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5. (a) u = 4t

t = 9

Find the value of u

(b) A = 3w

Work out the value of A when w = 5

(c) x = 6

Work out the value of 3x

6. (a) p = 3

q = 8

Work out the value of 7p + 2q

(b) y = 7n + 3dn = 2

$$d = 5$$

Work out the value of y

(c)
$$x = 30$$

 $y = 9$
 $P = 2x + 3y$

Find the value of P

7. (a) n = 4

d = -5

Work out the value of 7n + 3d

- (b) x = 5 y = 3 P = 8x - 4yFind the value of P(c) p = -5 q = 3
 - W = 7p + 2q

Find the value of ${\cal W}$

8. A = 3w - 4

Work out the value of A when w = 5

9. (a) Here is a way to convert oven temperatures from a gas mark into $^{\circ}F$.

Temperature $^{\circ}F$ = Gas mark $\times 25$ + 250

Fletcher needs to convert gas mark 5 into $^\circ\mathrm{F}.$

Write down this temperature in °F.

(b) You can use this rule to work out the total wage of a delivery driver.

 $\pounds 8~{\rm per}$ hour plus tips

Onile works as a delivery driver for 9 hours and got £17 tips. Work out Onile's total wage.

(c) Here is the price list for motor racing experience laps.

Moto Experience					
First lap and training	£125				
All other laps	£35				

Caz has booked and paid for 5 laps.

Work out the total cost of the 5 laps.